Balanced Modernization

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The Strategic Context

- **We are a nation at war**
- **This is a prolonged period of conflict for the US with great uncertainty about the nature and location of that conflict**
- **We must be able to defuse crises and/or defeat aggression early to prevent escalation, limit damage**
- **Thus, we need flexible, rapidly deployable forces and sufficient depth and strength to sustain multiple, simultaneous operations**

We have over 253,000 SOLDIERS overseas in over 120 countries

Combatant Commanders Need Versatile, Potent Land Power

Joint Operational Environment

Contemporary

- Uncertain contingencies
- Protracted conflict w/o total mobilization
- Complex, asymmetric threats
- Joint leverage opportunities
- Distributed, non-contiguous operations
-

Brigades as Building Blocks

(Less than 4,000 Soldiers in each Brigade)

X
Infantry

X
Heavy

X
Stryker

X
FCS
Future

Standard maneuver brigades with organic combined arms capabilities

X
Maneuver Enhancement

X
Battlefield Surveillance

X
Aviation

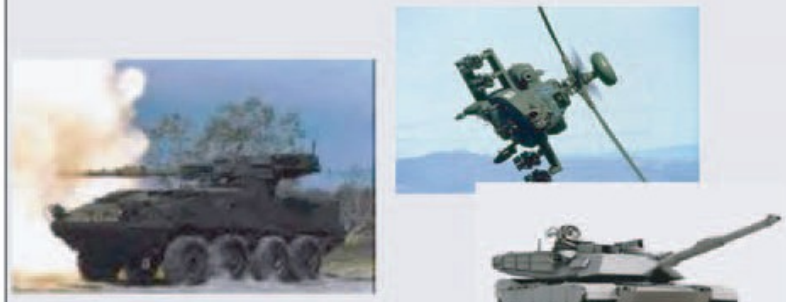
X
Fires

X
SUST
Sustainment

Supporting brigades with standard headquarters, but variable subordinate units

Balanced Modernization Approach

Provide and enhance Current Force capabilities



Develop and field Future Force capabilities

Achieve right balance

Fully Networked Battle Command capabilities bridge from the Current to Future Force and enable interdependent network-centric warfare

Current → Future

Enhanced Capabilities

Increasingly:
- *Integrated*
- *Expeditionary*
- *Networked*
- *Decentralized*
- *Adaptable*
- *Decision Superior*
- *Lethal*

Accelerated Development and Fielding of DOTMLPF Solutions

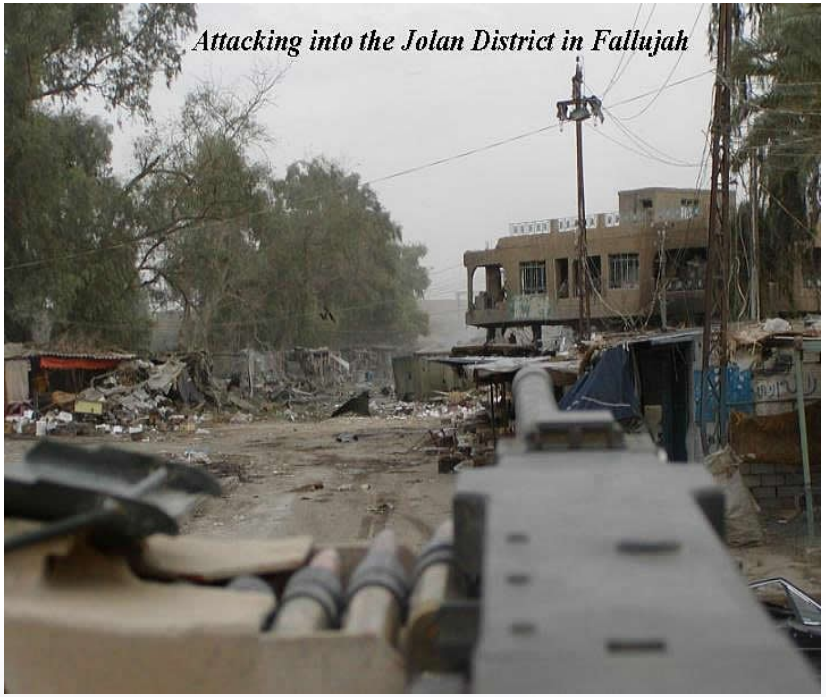
Modernize
- Modularize formations
- Insert new technologies
- Field new equipment

Reset
- Restore/preserve combat readiness
- Recapitalize selected systems

Stryker Family of Armored Vehicles

The Stryker Family of Armored Vehicles is the centerpiece combat and combat support platform for the SBCTs. Two variants of the Stryker will be fielded: the Mobile Gun System (MGS) and the Infantry Carrier Vehicle (ICV)

Abrams Main Battle Tank



The Abrams recapitalization program is a modernization program focused on the current armored force and seeks to ensure the Abrams main battle tank remains relevant to the developing Future Force by maintaining combat overmatch until fully replaced by the MCS variant of the FCS or some other capability.

Bradley Fighting Vehicle

Upgrades improve the crew's ability to navigate, pinpoint and identify friendly and enemy positions, and engage two separate targets nearly simultaneously in both day and night conditions. Also, the digital C2 provides a near real-time integrated data link between the M2A3 and other combat vehicles and headquarters.

Joint Operational Environment

Contemporary

- Uncertain contingencies
- Protracted conflict w/o total mobilization
- Complex, asymmetric threats
- Joint leverage opportunities
- Distributed, non-contiguous operations
- Network-enabled opportunities

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Future

- Anti-access environment
- Hyper-kinetic threats
- Premium on speed and survivability
- Weapons of Mass Destruction
- Technology access and proliferation

Future Force Capabilities (Briefed to the Secretary of Defense)

Future Combat Systems are designed to support four critical capabilities:

- **Rapidly deployable, highly mobile land forces with the ability to fight on arrival**
- **Joint networked forces at all echelons and linked sensors, shooters, and commanders for enhanced lethality**
- **Self sustained forces for limited periods of time and a greatly reduced theater logistics footprint**
- **Broad range of capabilities that provides the President multiple military options in any situation and an ability to operate across the spectrum of conflict with a single force**

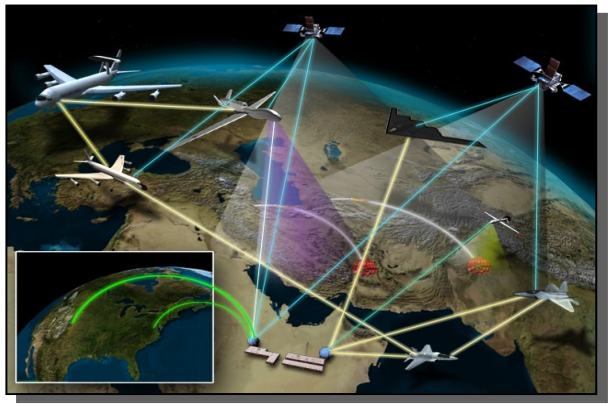
FCS-equipped Unit of Action capabilities were developed to support the Joint Force

Implications for Future Capabilities

Logistics Transformation

Advanced Strategic/
Operational Lift

Joint Interdependence



Network / Advanced C4ISR

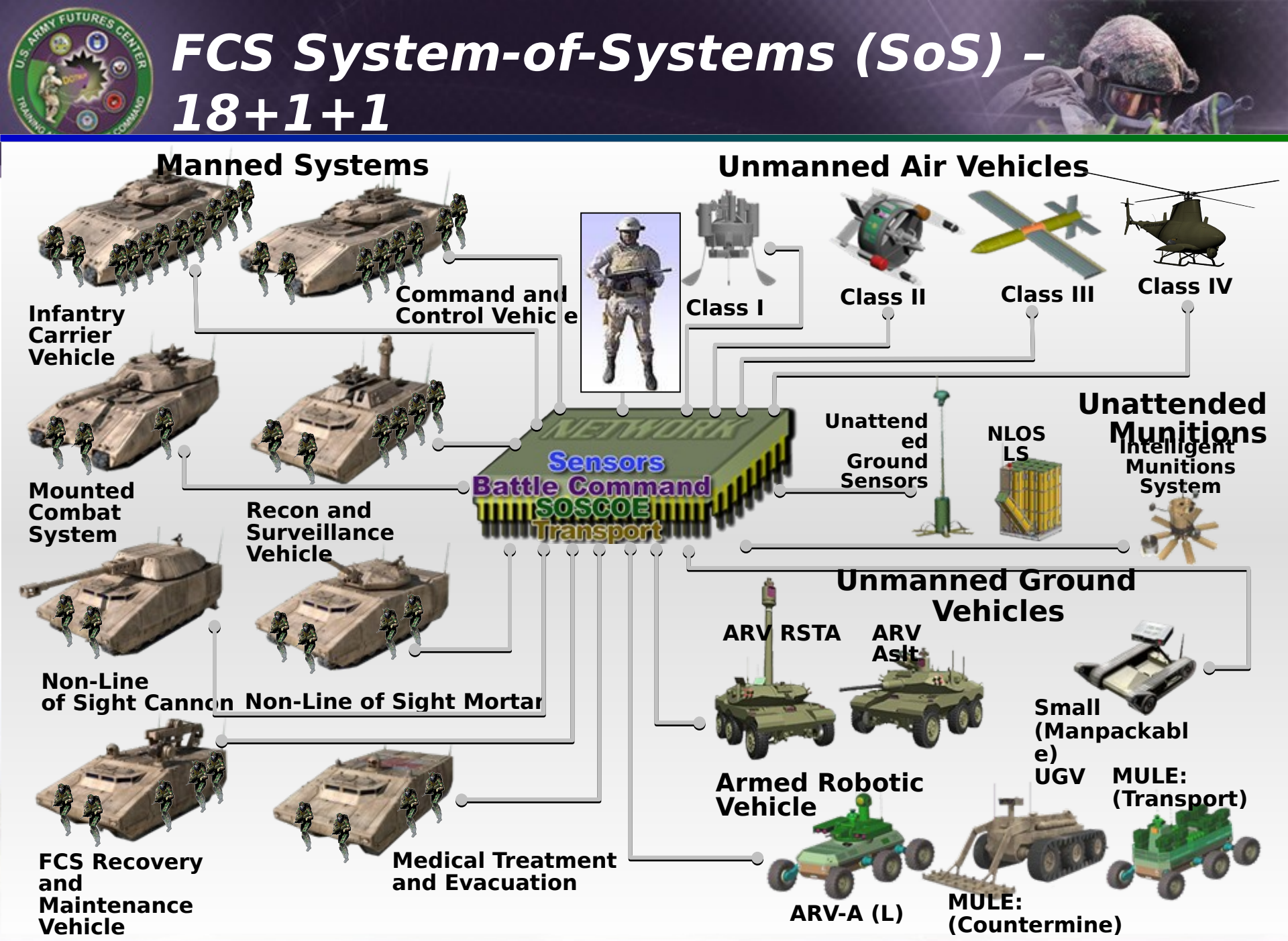
Precision Munitions
Advanced Fire Control

Adaptable Leaders,
Soldiers & Civilians

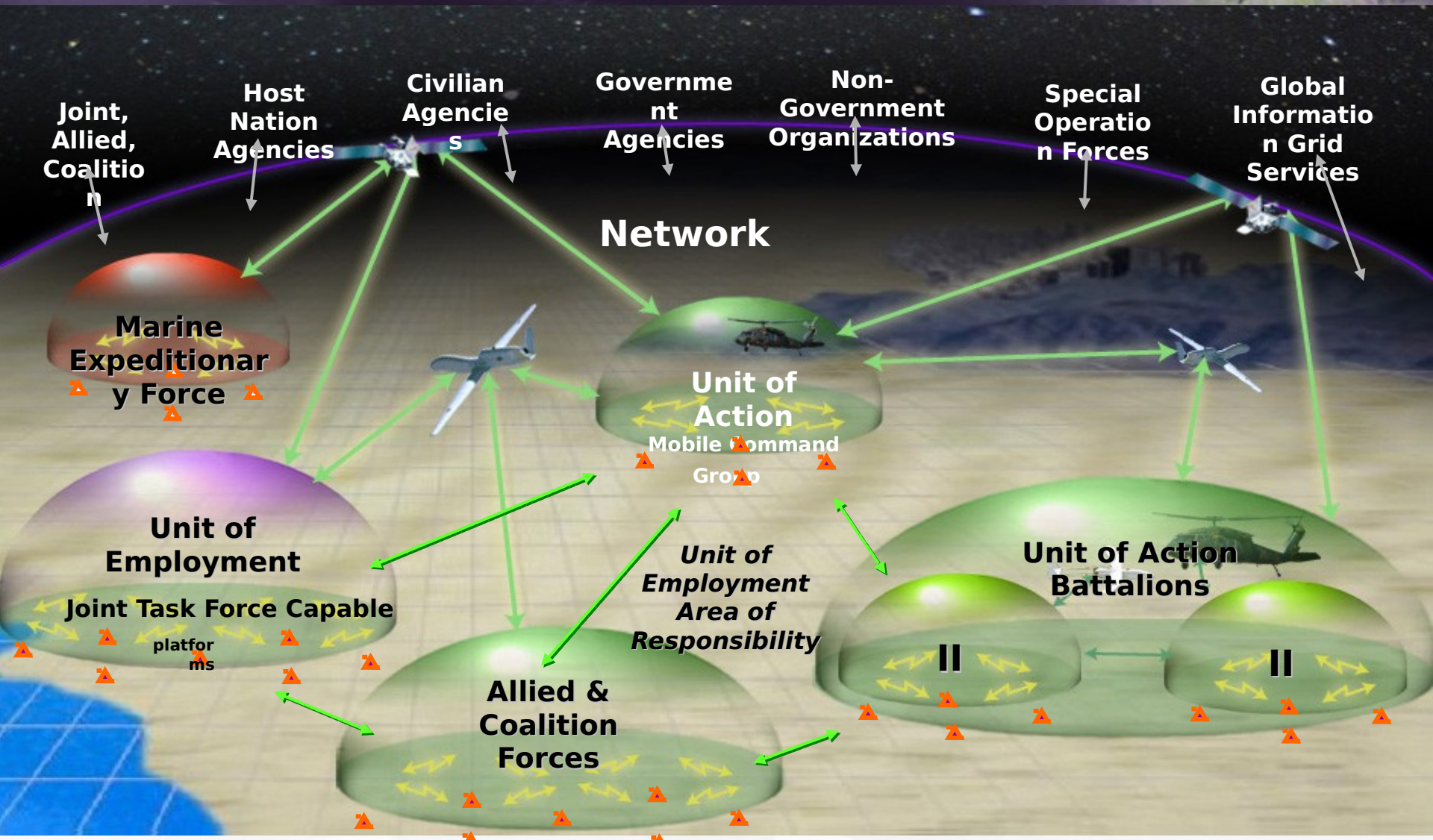
Hybrid Mix of
Forces

Future Force Will Be at Risk Without FCS

FCS System-of-Systems (SoS) – 18+1+1



FCS Network Nested in LandWarNet



LandWarNet provides *INTERNAL* Infosphere connectivity and *EXTERNAL* Interoperability

Why the FCS MGVs?

Manned Ground Vehicles (MGV)

Infantry Carrier Vehicle

Capabilities
- Provide assault fighting and protected transportation for a full 9-man squad plus 2 crew members

Reconnaissance Surveillance Vehicle

Capabilities
- Equipped with a mast-mounted sensor pod
- Sensor suite composed of infrared, television, and radar components
- Provides day/night and all-weather sensing capability

NLOS – Mortar Vehicle

Capabilities
- Provides short-range indirect fires in support of assault battle units/network node

Mounted Combat System

Capabilities
- Provides direct fires in support of forces in the Unit of Action (UA)
- Line of sight with autoloader for 120mm Cannon
- Beyond Line-of-Sight (BLOS) capability to 12 km with Medium Range Munitions (MRM).

NLOS – Cannon Vehicle

Capabilities
- Fully automated primary armament (cannon and ammunition)
- Provides networked, extended-range targeting and precision attack of point and area targets in support of the UA/network node

Command and Control Vehicle

Capabilities
- Provides four soldier workstations
- Provides the key connection among organizational levels
- Full communication capability is available on the move

Medical Treatment/ Evacuation Vehicle

Capabilities
- Complement the critical needs and capabilities of the future combat medic and the future combat soldier
- The vehicle will enable the first medically trained person, the combat medic, to evacuate
- Provides treatment to combat casualties

FCS Recovery & Maintenance Vehicle

Capabilities
- Perform recovery & maintenance support tasks in concert with combat repair teams including recovery and righting of the heaviest FCS variant

FCS UAVs & UGVs - Appendages to MGVs

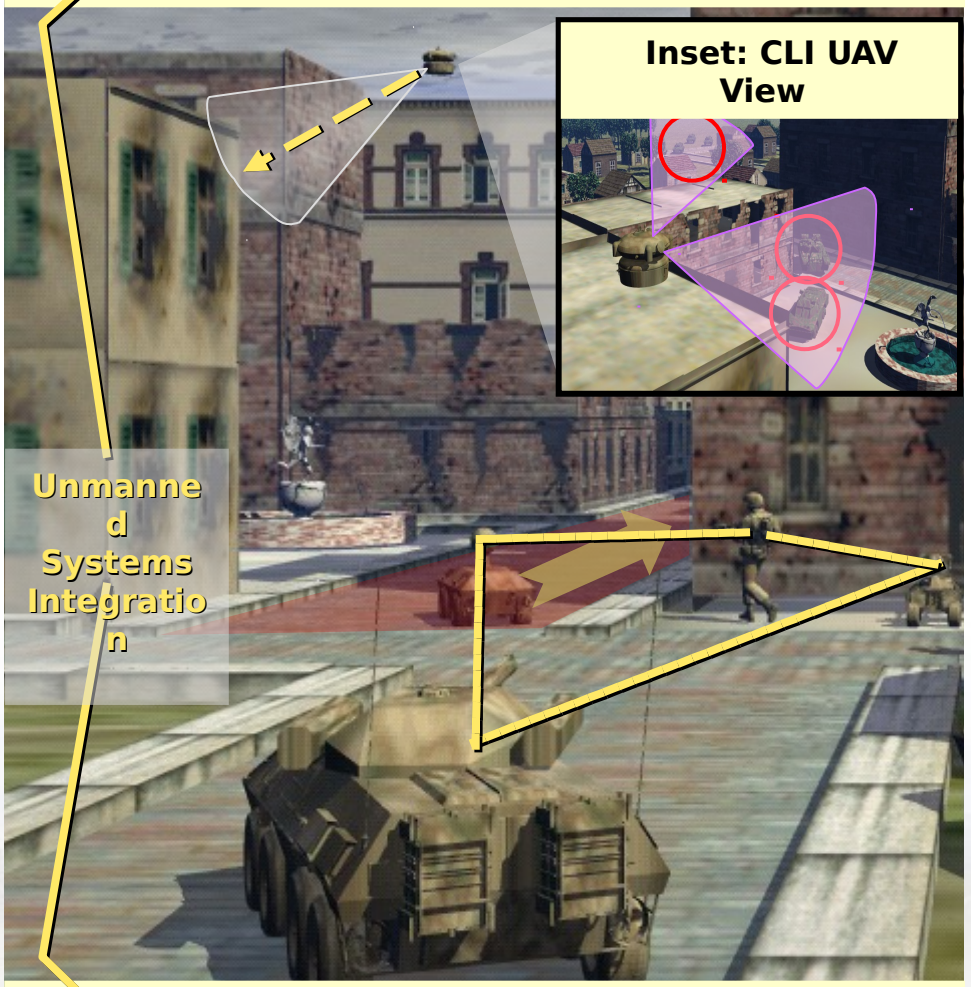
Increased Capabilities Enabled through UAVs

- Layered from Platoon to UA (CL I-IV)
- Enhanced capability to see the enemy in all terrain types - day or night
- Prolonged loiter and persistent stare
- Stand-off ISR and CBRN detection

Increased Capabilities Enabled through UGVs

- Remote recon, search, and detection capability for buildings, alleys, structures, fortifications, bunkers, etc.
- Manned/unmanned teaming of target acquisition/designation capability with effects delivery means (BLOS and LOS) affords enhanced lethality and soldier survivability
- Detection and neutralization of booby-traps, landmines, and explosive threats

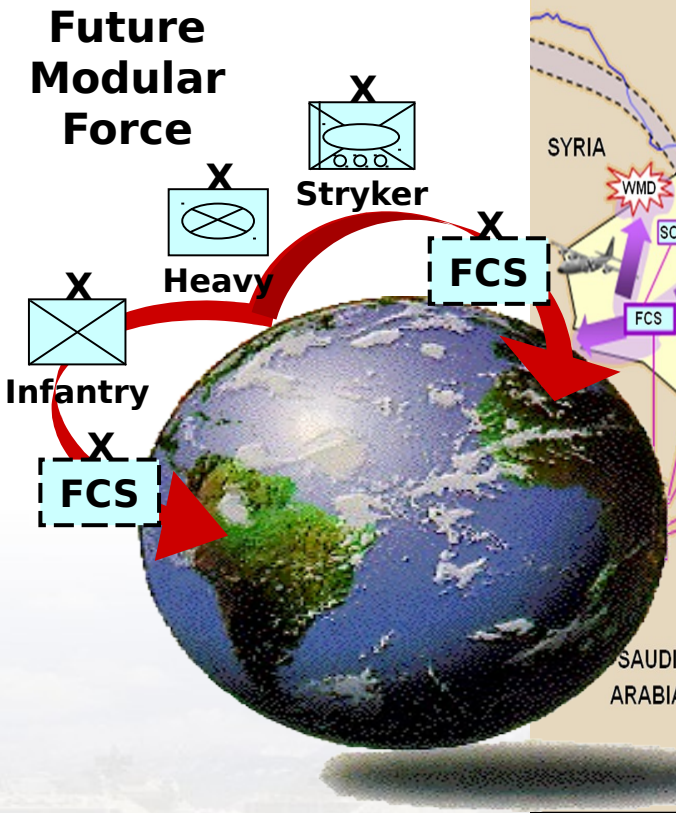
UAV Identifies Enemy Armor Closing on a UA Squad Beyond LOS (Next Street)



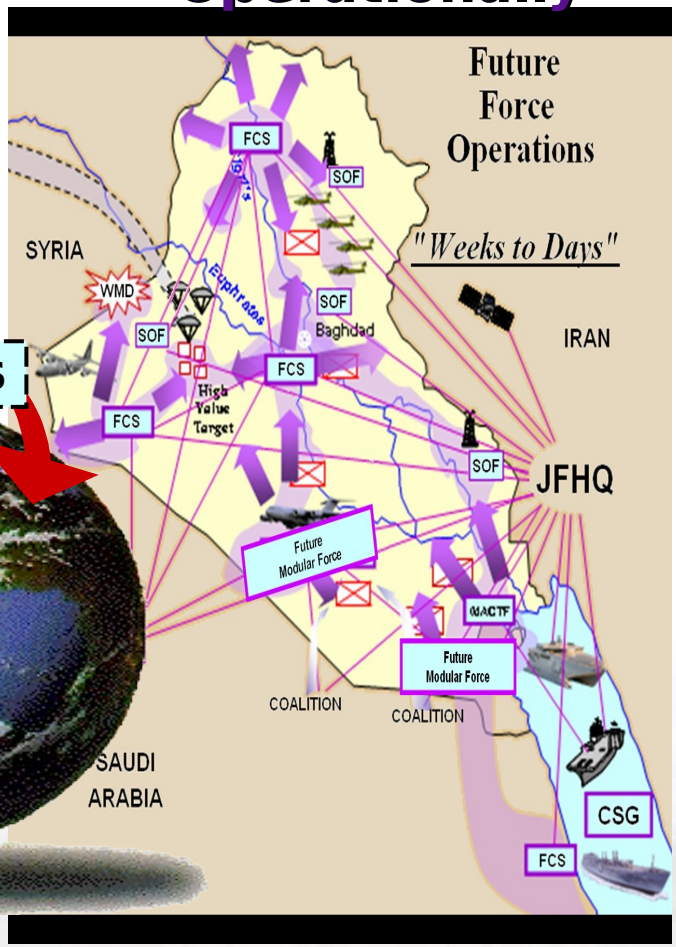
ARV-A(L) teamed with ARV-A and SUGV Remotely Performing Dangerous Soldier Tasks

How FCS Enables Warfighting Capability

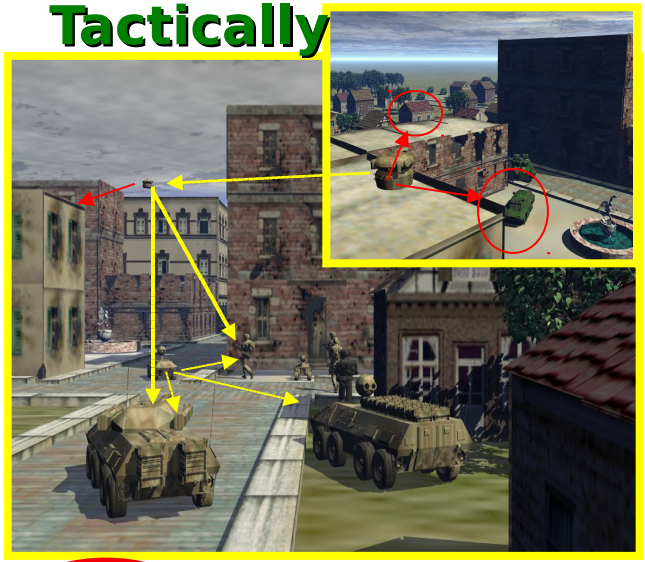
Strategically



Operationally



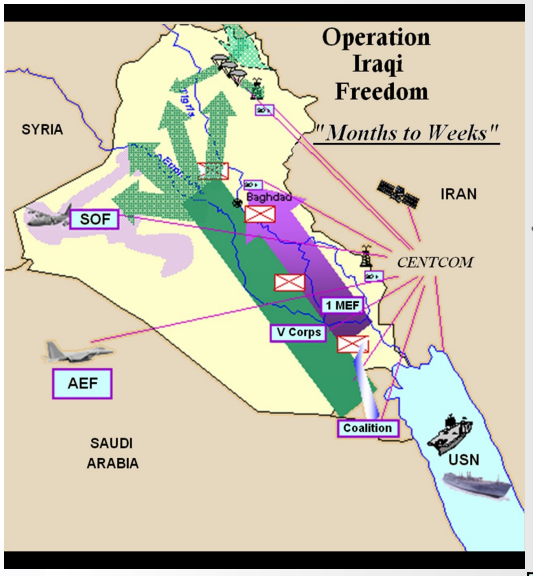
Tactically



with and destroy enemy forces to seize terrain and dominate the battl

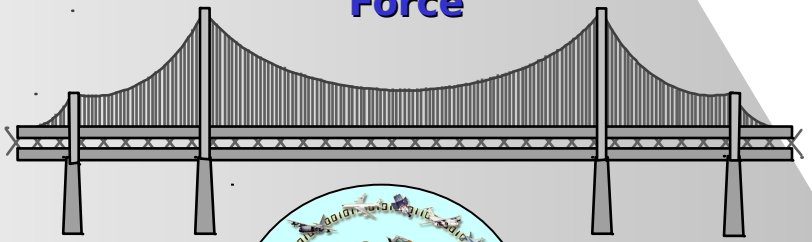
Summary of Modernization

Current Army

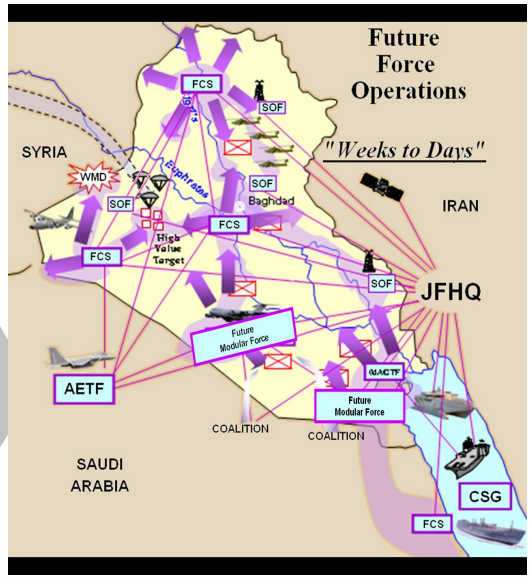


Balanced Modernization

Bridging the Gap to the Future Force



Future Army Modular



FCS Main Program & Spin Outs to Current Modular Force

X FCS

X X X
Infantry Heavy Stryker

X X X
Infantry Heavy Stryker

Recapitalization

What Isn't Changing

The Soldier is the Centerpiece of All Our Units

- ✓ **Everything we do is designed to support the Soldier**
- ✓ **A heritage of fighting and winning our Nation's Wars**
- ✓ **Traditions reflected in our unit's lineage and honors**